# IBM

## Personal System/2
## Facts and Features

*March 1991*

# PS/2 it!

Includes the
PS/2 Laptop
Model L40 SX

Use this handy reference to make quick comparisons of IBM Personal System/2® models—and check their options, too. It presents basic facts and features—as well as attachment cards and enhancement products—for the entire PS/2® family.

## Personal System/2 model comparisons

| Personal System/2 Model | 25 | 25 286 | 30 286 |
|---|---|---|---|
| **Machine numbers** | 8525-001, -004, -G01, -G04, -L01, -L04 | 8525-006, -G06, -036, -G36 | 8530-E01, -E21, -E31 |
| **Processor** | 8086 | 80286 | 80286 |
| Co-processor (optional) | 8087 | 80287 | 80287 |
| Speed (MHz) | 8 | 10 | 10 |
| Memory cache | None | None | None |
| **Bus architecture** | PC | AT® | AT |
| Data path | 8-bit | 16-bit | 16-bit |
| **User memory (RAM)[2]** | | | |
| Standard–maximum on system board | 512KB–640KB 640KB (-L01, -L04) | 1MB–4MB | 1MB–4MB |
| System maximum (addressable) | 640KB | 16MB[3] | 16MB |
| **Integrated functions** | | | |
| Parallel/serial/pointing device ports | Yes | Yes | Yes |
| Graphics | MCGA | VGA | VGA |
| Display port | No | No | Yes |
| Built-in display | Yes | Yes | No |
| Disk/diskette controller | Yes | Yes | Yes |
| SCSI | No | No | No |
| Network adapter | Optional | Optional | Optional |
| Key lock | Yes | Yes (-036, -G36)[4] | Yes |
| Clock/calendar | No | Yes | Yes |
| Security password | No | Yes | Yes |
| **Diskette drives, 3.5-inch** | | | |
| Capacity/maximum number supported | 720KB/2 | 1.44MB/2 (-006, -G06), /1 (-036, -G36) | 1.44MB/2 (-E01), /1 (-E21, -E31) |
| **Fixed disk storage** | | | |
| Standard–maximum (MB) | 0–20 | 0–30 (-006, -G06)[5] 30 (-036, -G36) | 0–30 (-E01)[5] 20 (-E21) 30 (-E31) |
| Average seek time | 80ms | 27ms (30MB) | 39ms (30MB) 27ms (20MB) |
| **Expansion slots (available)** | 2[6] | 2[6] | 3 |
| **Power supply** | 90-watt (-001, -G01, -L01) 115-watt (-004, -G04, -L04) | 124.5-watt | 90-watt |
| **Operating systems** | | | |
| DOS | 3.3, 4.0 | 3.3, 4.0 | 3.3, 4.0 |
| Operating System/2® | No | SE, EE 1.2, 1.3 | SE, EE 1.2, 1.3 |
| AIX® Personal System/2 | No | No | No |

[1] Processor upgrade (-A61, -A21).
[2] 128KB of this memory is reserved for hardware system use on Models 55 SX, 55 LS, P70 386, 70 386, 70 486.
[3] Achieving this configuration requires installation of non-IBM memory cards.
[4] Secures fixed disk only.
[5] Second diskette drive and fixed disk are mutually exclusive.

| L40 SX | 50 Z | 55 SX | 55 LS | 65 SX | P70 386 |
|---|---|---|---|---|---|
| 8543-044 | 8550-031, -061 | 8555-031, -061 | 8555-LT0, -LE0 | 8565-061, -121, -321 | 8573-031, -061, -121 |
| 80386SX<br>Socket<br>20 | 80286<br>80287<br>10 | 80386SX™<br>80387SX<br>16 | 80386SX<br>80387SX<br>16 | 80386SX<br>80387SX<br>16 | 80386™<br>80387<br>16 (-031)<br>20 (-061, -121) |
| None | None | None | None | None | None |
| AT<br>16-bit | Micro Channel®<br>16-bit | Micro Channel<br>16-bit | Micro Channel<br>16-bit | Micro Channel<br>16-bit | Micro Channel<br>32-bit |
| 2MB–18MB | 1MB–2MB | 2MB–8MB | 2MB–8MB | 2MB–8MB | 2MB–8MB (-031)<br>4MB–8MB (-061, -121) |
| 18MB | 16MB | 16MB | 16MB | 16MB | 16MB |
| Yes<br>VGA<br>Yes<br>Yes—LCD<br>Yes<br>No<br>Optional[8]<br>No<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Token-Ring or Ethernet<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Standard<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>Yes/gas plasma<br>Yes<br>Optional<br>Optional<br>No<br>Yes<br>Yes |
| 1.44MB/1 | 1.44MB/2 | 1.44MB/1 | 0/1 (1.44MB) | 1.44MB/2 | 1.44MB/1 |
| 60 | 30 (-031)<br>60 (-061) | 30 (-031)<br>60 (-061) | 0–60 | 60–1GB (-061)<br>120–1.1GB (-121)<br>320–1.28GB (-321) | 30 (-031)<br>60 (-061)<br>120 (-121) |
| 19ms | 39ms (30MB)<br>27ms (60MB) | 39ms (30MB)<br>27ms (60MB) | 32ms (30MB)<br>23ms (60MB) | 23ms (60MB, 120MB)<br>12.5ms (320MB) | 19ms (30MB)<br>27ms (60MB)<br>23ms (120MB) |
| None[9] | 3 | 3 | 2 | 7 | 2[6] |
| Rechargeable battery pack; AC Adapter | 94-watt | 90-watt | 90-watt | 250-watt | 85-watt |
| 3.3, 4.0<br>SE, EE 1.3<br>No | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>No | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.2.1 (-061) | 3.3, 4.0<br>No[7]<br>No | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.2.1 | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.2.1 (-061, -121) |

[6]One full-size, one half-size; 8525-L01, -L04 models use half-size slot for Token-Ring Adapter.
[7]OS/2 client support will be available in a future release of OS/2 LAN Server.
[8]IBM intends to provide connectivity to IBM networks using the L40 SX's external expansion port and Personal Computer AT versions of the 3278/3279 Emulation Adapter, the 5250 Emulation Adapter, and the Token-Ring Network 16/4 Adapter.

[9]Has an AT bus external expansion port instead.
[10]Two full-size; two half-size.

| 70 386 | 70 486 | P75 486 | 80 386 | 90 XP 486 | 95 XP 486 |
|---|---|---|---|---|---|
| 8570-E61, -061, -121, -A61, -A21 | 8570-B61, -B21 | 8573-161, -401 | 8580-081, -161, -321, -A16, -A31 | 8590-0J5, -0J9, -0KD | 8595-0J9, -0JD, -0KD |
| 80386/i486™[1] 80387 16 (-E61) 20 (-061, -121) 25 (-A61, -A21) | i486 Built-in 25 | i486 Built-in 33 | 80386 80387 20 (-081, -161, -321) 25 (-A16, -A31) | i486 Built-in 25 (-0J5, -0J9) 33 (-0KD) | i486 Built-in 25 (-0J9, -0JD) 33 (-0KD) |
| 64KB (-A61, -A21) | 8KB | 8KB | 64KB (-A16, -A31) | 8KB (256KB optional) | 8KB (256KB optional) |
| Micro Channel 32-bit | Micro Channel 32-bit | Micro Channel 32-bit | Micro Channel 32-bit | Micro Channel 32-bit | Micro Channel 32-bit |
| 2MB–6MB (-E61, -061, -121) 2MB–8MB (-A61, -A21) 16MB | 2MB–8MB 16MB | 8MB–16MB 16MB | 2MB–4MB (-081, -161, -321) 4MB–8MB (-A16, -A31) 16MB | 4MB–32MB 32MB | 4MB–32MB 32MB |
| Yes VGA Yes No Yes Optional Optional Yes Yes Yes | Yes VGA Yes No Yes Optional Optional Yes Yes Yes | Yes XGA Yes Yes/gas plasma Yes Standard Optional Yes Yes Yes | Yes VGA Yes No Yes Standard Optional Yes Yes Yes | Yes XGA Yes No Yes Standard Optional Yes Yes Yes | Yes XGA Yes No Yes Standard Optional Yes Yes Yes |
| 1.44MB/2 | 1.44MB/2 | 1.44MB/1 | 1.44MB/2 | 1.44MB/2 | 1.44MB/2 |
| 60 (-E61, -061, -A61) 120 (-121, -A21) | 60 (-B61) 120 (-B21) | 160 (-161) 400 (-401) | 80–1.04GB (-081) 160–1.12GB (-161, -A16) 320–1.28GB (-321, -A31) | 80–720 (-0J5) 160–800 (-0J9) 320–960 (-0KD) | 160–1.44GB (-0J9) 320–1.6GB (-0JD, -0KD) |
| 27ms (60MB) 23ms (120MB) | 27ms (60MB) 23ms (120MB) | 16ms (160MB) 11.5ms (400MB) | 17ms (80MB) 16ms (160MB) 12.5ms (320MB) | 17ms (80MB) 16ms (160MB) 12.5ms (320MB) | 16ms (160MB) 12.5ms (320MB) |
| 3 | 3 | 4[10] | 7 | 3 | 6 |
| 132-watt | 132-watt | 120-watt | 225-watt 242-watt (-A16, -A31) | 194-watt | 329-watt |
| 3.3, 4.0 SE, EE 1.2, 1.3 1.2.1 | 3.3, 4.0 SE, EE 1.2, 1.3 1.2.1 | 3.3, 4.0 SE, EE 1.2, 1.3 1.2.1 | 3.3, 4.0 SE, EE 1.2, 1.3 1.2.1 | 3.3, 4.0 SE, EE 1.2, 1.3 1.2.1 | 3.3, 4.0 SE, EE 1.2, 1.3 1.2.1 |

# IBM PS/2 options

| Personal System/2 Model | Part no.* | 25 | 25 286 | 30 286 | L40 SX | 50 Z | 55 SX | 55 LS | 65 SX | P70 386 | 70 386 | 70 486 | P75 486 | 80 386 | 90 XP 486 | 95 XP 486 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Processors/co-processors** | | | | | | | | | | | | | | | | |
| 486/25 Power Platform (upgrade) | 6450876 | | | | | | | | | ■[1] | | | | | | |
| 486/33 Processor Upgrade | 6451094 | | | | | | | | | | | | | | ■ | ■ |
| PS/2 Wizard Adapter | 34F3062 | | | | | | | | | ■ | | ■ | ■ | ■ | ■ | ■ |
| **Memory** | | | | | | | | | | | | | | | | |
| 128KB Memory Expansion | 78X8955 | ■ | | | | | | | | | | | | | | |
| Multifunction Adapter | 30F5364 | | | ■ | | | | | | | | | | | | |
| 1–8MB 80286 Memory Expansion Option | 6450685 | | | | | ■ | ■ | ■ | ■ | | | | | | | |
| 2–8MB 80286 Memory Expansion | 6450609 | | | | | ■ | ■ | ■ | ■ | | | | | | | |
| 2–8MB 80386 Memory Expansion | 6450605 | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | |
| Enhanced 80386 Memory Expansion 2MB | 34F3077 | | | | | | | | | ■ | ■ | ■ | | ■ | | |
| Enhanced 80386 Memory Expansion 4MB | 34F3011 | | | | | | | | | ■ | ■ | ■ | | ■ | | |
| **Storage devices** | | | | | | | | | | | | | | | | |
| 3.5-inch 720KB Diskette Drive | ** | ■ | | | | | | | | | | | | | | |
| 3.5-inch 1.44MB Diskette Drive | ** | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | | ■ | ■ | ■ |
| 5.25-inch Internal Diskette Drive | ** | | | | | | | | ■ | | | | | ■ | ■ | ■ |
| 5.25-inch External Diskette Drive (360KB) | 4869001 | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 5.25-inch External Diskette Drive (1.2MB) | 4869002 | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20MB Fixed Disk | ** | | ■ | ■ | ■ | | | | | | | | | | | |
| 30MB Fixed Disk | ** | | ■ | ■ | | | | ■ | | | | | | | | |
| 60MB Fixed Disk | 6451084 | | | | | | | ■ | | | | | | | | |
| 80MB SCSI Fixed Disk | 6451045 | | | | | | | | ■ | | | | | ■ | ■ | ■ |
| 160MB SCSI Fixed Disk | 6451046 | | | | | | | | ■ | | | | | ■ | ■ | ■ |
| 320MB SCSI Fixed Disk | 6451108 | | | | | | | | ■ | | | | | ■ | ■ | ■ |
| 400MB SCSI Fixed Disk Drive | 6451081 | | | | | | | | ■ | | | | | ■ | ■ | ■ |
| CD-ROM Drive (Internal) | 6451113 | | | | | | | | ■ | | | | | ■ | ■ | ■ |
| External CD-ROM Drive | 3510001 | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 2.3GB SCSI Tape Drive | 6451121 | | | | | | | | | | | | | | | ■ |
| 6157 Streaming Tape Drive | 6157001/2 | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Internal Tape Backup Unit | 30F5279 | | | | | ■ | | | ■ | | ■ | ■ | | ■ | ■ | ■ |
| **Connectivity** | | | | | | | | | | | | | | | | |
| Token-Ring Network Adapter II | 25F9858 | ■ | ■ | ■ | | | | | | | | | | | | |
| Token-Ring Network Adapter/A | 69X8138 | | | | | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ |
| P70 386 Token-Ring Adapter/A | 39F9598 | | | | | | | | | ■ | | | ■ | | | |
| Token-Ring Network 16/4 Adapter | 25F7367 | ■ | ■ | ■ | | | | | | | | | | | | |
| Token-Ring Network 16/4 Adapter/A | 16F1133 | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Token-Ring Network 16/4 Busmaster Server Adapter/A | 74F4140 | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Token-Ring Network 16/4 Trace and Performance Adapter | 74F5121 | | ■ | ■ | | | | | | | | | | | | |
| Token-Ring Network 16/4 Trace and Performance Adapter/A | 74F5130 | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Adapter/A for Ethernet Networks | 6451091 | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| PC Network Broadband Adapter II | 1501220 | ■ | ■ | ■ | | | | | | | | | | | | |

| Feature | Part Number |
|---|---|
| Adapter/A for Ethernet Networks | 6451091 |
| PC Network Broadband Adapter II | 1501220 |
| PC Network Broadband Adapter II/A | 1501222 |
| PC Network Adapter II Frequency 2, 3 | 96X5645/6 |
| PC Network Adapter II/A Frequency 2, 3 | 96X5647/8 |
| PC Network Baseband Adapter | 1501221 |
| PC Network Baseband Adapter/A | 1501223 |
| Multi-Protocol Adapter/A | 6451003 |
| Dual Async Adapter/A | 6451013 |
| BSC Communications Adapter | 1501204 |
| SDLC Communications Adapter | 1501205 |
| Realtime Interface Co-Processor (RIC) | *** |
| RIC Multiport/2 | *** |
| RIC Portmaster Adapter/A | *** |
| X.25 Interface Co-Processor/2 | 16F1858 |
| Serial/Parallel Adapter | 6450215 |
| Serial Adapter | 79F0979 |
| 300/1200/2400 Internal Modem/A | 94X1755 |
| Data/Fax Modem | 79F0198 |
| Enhanced 5250 Emulation Adapter Kit | 30F5383 |
| 3278/79 Emulation Adapter | 53F6425 |
| 3270 Connection | 74F3465 |
| System 36/38 W/S Emulation Adapter/A | 69X6279 |
| Display Station Emulation Adapter | 92X0813 |
| Display Station Emulation Adapter/A | 92X0743 |
| System/370™ Channel Emulation Adapter/A | 06F3160 |

**Graphics and multimedia**

| Feature | Part Number |
|---|---|
| Display Adapter 8514/A | 1887972 |
| XGA Display Adapter/A | 75X5887 |
| Image Adapter/A | *** |
| M-Audio Capture/Playback Adapter/A | 87F9909 |
| Video Capture Adapter/A | 34F2785 |
| M-Audio Capture/Playback Adapter | 87F9908 |
| M-Motion Video Adapter/A | 34F3087 |

**Other features**

| Feature | Part Number |
|---|---|
| PS/2 Mouse | 6450350 |
| PC Music Feature | 81X8630 |
| PS/2 Speech Adapter | 1501216 |
| Game Control Adapter | 1501300 |
| Micro Channel SCSI Adapter | 6451109 |
| Micro Channel SCSI Adapter with Cache | 6451110 |

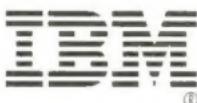| **Displays** | PS/2 displays are supported on Models 30 286 and above. |
|---|---|
| **Printers/plotters/scanners** | The following are supported on all models: Proprinter,® LaserPrinter, Quickwriter,® Quietwriter,® 3812/3816 Page Printers, ExecJet,™ 618X/737X Color Plotters, 3117/3118 Scanners (not supported on Models 90 and 95 XP 486). The 3119 PageScanner is supported on Models 50 and above. |

*Additional cards and options are available—consult your IBM marketing representative or IBM Authorized Dealer.*
*\*Other part numbers may be required to support a specific device or function.*
*\*\*There is more than one part number for this type of device, depending on specific systems supported.*
*\*\*\*There is more than one part number for this type of option, depending on the amount of on-card memory and other functions desired.*